Nikon

DIGITAL CAMERA

COOLPIX AW100

Reference Manual





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See http://www.mpegla.com.

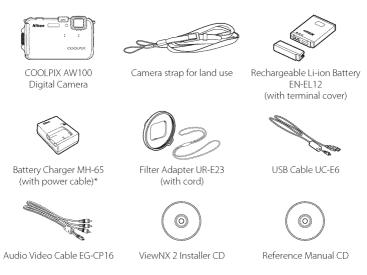
Introduction	
Parts of the Camera and Basic Operations	
The Basics of Shooting and Playback	
Shooting Features	
Playback Features	
Recording and Playing Back Movies	
Using GPS/Displaying Maps	
General Camera Setup	
Reference Section	
Technical Notes and Index	

Read This First

Thank you for purchasing the Nikon COOLPIX AW100 digital camera. Before using the camera, please read the information in "For Your Safety" (\(\subseteq\)vi) and "<|mportant> Shockproof, waterproof, dustproof, condensation, GPS/digital compass" (\(\subseteq\)xi), and familiarize yourself with the information provided in this manual. After reading, please keep this manual handy and refer to it to enhance your enjoyment of your new camera.

Confirming the Package Contents

In the event that any items are missing, please contact the store where you purchased the camera.



- · Warranty
- * Shape of power cable depends on country of use.

NOTES:

- · Accessories are not waterproof.
- A memory card is not included with the camera.

About This Manual

If you want to start using the camera right away, see "The Basics of Shooting and Playback" (115).

To learn about the parts of the camera and basic operations, see "Parts of the Camera and Basic Operations" (\square 1).

Other Information

Symbols and Conventions
 To make it easier to find the information you need, the following symbols and conventions are used in this manual:

lcon	Description
V	This icon indicates cautions and information that should be read before using the camera.
Ø	This icon marks notes, information that should be read before using the camera.
□/ >> /&	These icons indicate other pages containing relevant information; C: "Reference Section", : "Technical Notes and Index."

- SD, SDHC and SDXC memory cards are referred to as "memory cards" in this manual.
- The setting at the time of purchase is referred to as the "default setting."
- The names of menu items displayed in the camera monitor, and the names of buttons or messages displayed on a computer monitor appear in bold.
- In this manual, images are sometimes omitted from monitor display samples so that monitor indicators can be more clearly shown.
- Illustrations and monitor content shown in this manual may differ from the actual product.

Information and Precautions

Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually updated information is available online at the following sites:

- · For users in the U.S.A.: http://www.nikonusa.com/
- For users in Europe and Africa: http://www.europe-nikon.com/support/
- For users in Asia, Oceania, and the Middle East: http://www.nikon-asia.com/

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. Visit the site below for contact information:

http://imaging.nikon.com/

Use Only Nikon Brand Electronic Accessories

Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, and AC adapters) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY

The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking.

For more information about Nikon brand accessories, contact a local authorized Nikon dealer.

Holographic seal: Identifies this device as an authentic Nikon product.



Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

About the Manuals

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- Nikon will not be held liable for any damages resulting from the use of this product.
- Nikon reserves the right to change the specifications of the hardware and software described in the documentation at any time and without prior notice.
- While every effort was made to ensure that the information in the documentation is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

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· Comply with copyright notices

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Disposing of Data Storage Devices

Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility.

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for the **Select an image** option in the **Welcome screen** setting (\square 94). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

For Your Safety

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them.



This icon marks warnings, information that should be read before using this Nikon product, to prevent possible injury.

WARNINGS

Turn off in the event of malfunction

Should you notice smoke or an unusual smell coming from the camera or Battery Charger, unplug the AC adapter and remove the battery immediately. taking care to avoid burns. Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikonauthorized service representative for inspection.

Do not disassemble

Touching the internal parts of the camera or Battery Charger could result in injury. Repairs should be performed only by qualified technicians. Should the camera or Battery Charger break open as the result of a fall or other accident, take the product to a Nikonauthorized service representative for inspection, after unplugging the product and/or removing the battery.

Do not use the camera or **Battery Charger in the** presence of flammable gas

Using the camera in the presence of flammable gases such as propane and gasoline, as well as flammable sprays or dust could result in explosion or fire.

Remove the strap when using the camera underwater

Twisting the camera strap around the neck may cause suffocation.

Handle the camera strap with care

Never place the strap around the neck of an infant or child.

Meep out of reach of children

Do not keep the products within reach of children. Doing so may cause injury. Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths



♠ Do not remain in contact with the camera, battery charger, or AC adapter for extended periods while the devices are on or in use.

Parts of the devices become hot. Leaving the devices in direct contact with the skin for extended periods may result in low-temperature burns.

Observe caution when handling the battery

The battery may leak, overheat, or explode if improperly handled. Observe the following precautions when handling the battery for use in this product:

- Before replacing the battery, turn the product off. If you are using the Battery Charger/AC adapter, be sure it is unplugged.
- Use only a Rechargeable Li-ion Battery EN-EL12 (included). Charge the battery by inserting it in a Battery Charger MH-65 (included).
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing.
- Do not expose the battery to flame or to excessive heat.
- Do not immerse in or expose to water.
- Replace the terminal cover when transporting the battery. Do not transport or store with metal objects such as necklaces or hairpins.
- The battery is prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation.
- If liquid from the damaged battery comes in contact with clothing or skin, rinse immediately with plenty of water.

Observe the following precautions when handling the Battery Charger

- Keep dry. Failure to observe this precaution could result in fire or electric shock.
- Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire
- Do not handle the power cable or go near the Battery Charger during lightning storms. Failure to observe this precaution could result in electric shock.
- Do not damage, modify, forcibly tug or bend the power cable, place it under heavy objects, or expose it to heat or flames. Should the insulation be damaged and the wires become exposed, take it to a Nikonauthorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock.
- Do not handle the plug or Battery Charger with wet hands. Failure to observe this precaution could result in electric shock.
- Do not use with travel converters or adapters designed to convert from one voltage to another or with DCto-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire.

Use appropriate cables

When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose, to maintain compliance with product regulations.

⚠ Handle moving parts with care
Be careful that your fingers or other
objects are not pinched by the lens
cover or other moving parts.

♠ CD-ROMs

The CD-ROMs included with this device should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment.

⚠ Observe caution when using the flash

Using the flash close to your subject's eyes could cause temporary visual impairment. Particular care should be observed if photographing infants, when the flash should be no less than 1 m (3 ft 4 in.) from the subject.

Do not operate the flash with the flash window touching a person or object

Failure to observe this precaution could result in burns or fire.

Avoid contact with liquid crystal

Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

Turn the power off when using inside an airplane or the hospital

Turn the power off while inside an airplane during takeoff and landing. Also, before boarding an airplane, set the GPS tracking information recording function to OFF. If using in a hospital, be sure to follow the instructions of the hospital. The electromagnetic waves emitted by this camera may disrupt the electronic systems of the airplane or the instruments of the hospital.

Do not touch the camera directly for a long time in low temperatures of 0°C (32°F) or lower

If the skin contacts metal parts etc., it may result in injury to the skin. Wear gloves etc.

Drivers should not operate the camera while driving.

This could cause a traffic accident.

Observe caution when using the movie light

Do not look directly into the movie light. This could damage the eyes or result in visual impairment.

Notices for Customers in the U.S.A.

IMPORTANT SAFETY INSTRUCTIONS -

SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet if needed.

The power supply unit is intended to be correctly orientated in a vertical or floor mount position.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this

equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.



CAUTIONS

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the ECC rules.

Notice for Customers in the State of California WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

Wash hands after handling.

Nikon Inc., 1300 Walt Whitman Road, Melville, New York 11747-3064 USA Tel: 631-547-4200

Notice for Customers in Canada

CAUTION

This Class B digital apparatus complies with Canadian ICES-003

ATTENTION

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

Notices for Customers in Europe

CAUTIONS

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

This symbol indicates that this product is to be collected separately.

The following apply only to users in European countries:



- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the battery indicates that the battery is to be collected separately. The following apply only to users in European countries:



- All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

<Important> Shockproof, waterproof, dustproof, condensation, GPS/digital compass

• Make sure to read the following instructions as well as the instructions provided in "Caring for the Products" (🕉 2).

Notes on shockproof performance

This camera has passed Nikon's in-house test (drop test from a height of 152 cm (60 in.) on a 5 cm (2 in.) thick plywood panel) compliant with MIL-STD 810F Method 516 5-Shock*

This test does not guarantee the waterproof performance of the camera or that the camera will be free from damage or trouble under all conditions.

Changes in appearance, such as paint peeling off and deformation of the drop shock portion are not subject to the Nikon's in-house test.

* U.S. Department of Defense test method standard.

This drop test drops 5 cameras in 26 directions (8 edges, 12 corners, and 6 faces) from a height of 122 cm (48 in.) to make sure that one to five cameras pass the test (if any defect is detected during the test, another five cameras are tested to make sure that the test criteria are satisfied for one to five cameras).

Do not subject the camera to excessive shock, vibration or pressure by dropping or hitting it.

Failure to observe this precaution could cause water to seep inside the camera and result in camera malfunction.

- Do not use the camera deeper than 10 m (33 ft) underwater.
- Do not subject the camera to water pressure by exposing it to running water.
- Do not sit down with the camera in the pocket of your trousers.
 Do not forcibly stuff the camera into a bag.

Notes on waterproof and dustproof performances

The camera is equivalent to IEC/JIS waterproof grade 8 (IPX8) and IEC/JIS dustproof grade 6 (IP6X) and enables shooting pictures underwater at a depth of 10 m (33 ft) for up to 60 minutes.*

This rating does not guarantee the waterproof performance of the camera or that the camera will be free from damage or trouble under all conditions.

* This rating indicates that the camera has been designed to withstand the specified water pressure for the specified period of time when the camera is used according to the methods defined by Nikon.

If the camera is subjected to excessive shock, vibration or pressure by dropping or hitting it, the waterproof performance is not guaranteed.

- If the camera is exposed to shocks, it is recommended to consult your retailer or Nikonauthorized service representative to confirm the waterproof performance (charged service).
 - Do not use the camera deeper than 10 m (33 ft) underwater.
 - Do not subject the camera to water pressure by exposing it to the running water.
 - Your Nikon warrantee may not cover troubles caused by water seeping inside the camera due to improper handling of the camera.

- The waterproof performance of this camera is designed to work for fresh water and seawater only.
- The inner portion of this camera is not waterproof. Water seeping inside the camera could cause a malfunction.
- · Accessories are not waterproof.
- Do not handle the camera with wet hands.
 Do not insert a wet memory card or battery in the camera.
- If a liquid such as water droplets falls on the outside of the camera or inside of the battery-chamber/memory card slot cover, immediately wipe it off with a soft dry cloth.
 If the battery-chamber/memory card slot cover is opened or closed under wet conditions near a waterfront or underwater, this could cause water to seep inside the
 - camera or result in camera malfunction.

 Do not open or close the cover with wet hands. This could cause water to seep inside the
- If a foreign substance adheres to the outside of the camera or inside of the batterychamber/memory card slot cover (in locations such as yellow waterproof packing, hinges, memory card slot, or terminals), immediately remove it with a blower or brush.
- If a foreign substance such as suntan oil, sunscreen lotion, hot spring, bath mix powder, detergent, soap, organic solvent, oil, or alcohol adheres to the camera, immediately wipe it off.
- Do not leave the camera in low temperature conditions in cold climate regions or in high-temperature conditions of 40°C (104°F) or more (in particular, a place exposed to direct sunlight, inside the cabin of a car, on a boat, on the beach, or near heating apparatus) for a long period of time. This could cause deterioration of the waterproof performance.

Before using the camera underwater

the camera or result in camera malfunction.

Remove the strap for land use before using the camera underwater.

- Make sure that there are no foreign substances inside the batterychamber/memory card slot cover.
 - Any foreign substances such as sand, dust or hair inside the battery-chamber/ memory card slot cover should be removed with a blower or brush.
 - Any liquid such as water droplets inside the battery-chamber/memory card slot cover should be wiped off with a soft dry cloth.
- 2. Make sure that the waterproof packing of the battery-chamber/memory card slot cover is not cracked or deformed.
 - The waterproof performance of waterproof packing may start to deteriorate after one year.
 - It is recommended to consult your retailer or Nikon-authorized service representative once a year to replace the waterproof packing with a new one (charged service).
- 3. Make sure that the battery-chamber/memory card slot cover is firmly closed.
 - Rotate the battery-chamber/memory card slot cover latch until it clicks into place. Make sure that the thin cord of the camera strap does not get caught.
 - Make sure that the latch indicator indicates the "Close" status.

Notes on using the camera underwater

Observe the following precautions to prevent water from seeping inside the camera.

- Do not dive into water deeper than 10 m (33 ft) with the camera.
- Do not continuously use the camera underwater for 60 minutes or more.
- Use the camera in the water temperature range from 0°C to 40°C (32°F to 104°F) when using it underwater.
 - Do not immerse the camera in hot water (such as bath or hot spring) that is higher than 40° C (104° F).
- Do not open or close the battery-chamber/memory card slot cover underwater.
- Do not subject the camera to shock when using it underwater.
 Do not jump into water with the camera or subject it to high water pressure conditions such as rapids or waterfalls.
- This camera does not float in water. Make sure not to drop the camera underwater.

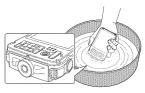
Cleaning after using the camera underwater

- After using the camera underwater, clean the camera within 60 minutes. If you leave
 the camera in wet conditions where salt particles, hot spring particles, or other foreign
 substances are adhered to it, this could cause damage, discoloration, corrosion, a bad
 smell or deterioration of waterproof performance.
- Before cleaning the camera, thoroughly remove water droplets, sand, salt particles, hot spring particles, or other foreign substances from your hands, body, and hair.
- It is recommended to clean the camera indoors to avoid a place where it could be exposed to water spray or sand.
- Do not open the battery-chamber/memory card slot cover until all foreign substances are washed off with water and all moisture is wiped off.

Keep the battery-chamber/memory card slot cover closed and wash off the camera with fresh water.

Immerse the camera in a shallow basin filled with freshwater for 10 minutes.

 If the buttons or switches do not operate properly, foreign substances may have adhered.
 Since this could cause a malfunction, immerse the camera in fresh water and shake it sufficiently in the water to remove the any foreign substances from the camera.



 When the camera is immersed in the water, a few air bubbles may come out from the water drain holes of the camera such as openings in the microphone or speakers. This is not a malfunction.

2. Wipe off water droplets with a soft cloth and dry the camera in the well-ventilated and shady place.

- Place the camera on a dry cloth to dry it.
 Water will flow out from openings in the microphone or speakers.
- Do not dry the camera with hot air from a hair dryer or clothes dryer.
- Do not use chemicals (such as benzine, thinner, alcohol, or cleanser), soap, or neutral detergents.
 If the waterproof packing or body of the camera becomes deformed, the waterproof performance will deteriorate.

3. After making sure that there are no water droplets on the camera, open the battery-chamber/memory card slot cover and gently wipe off any water or sand remaining inside the camera with a dry soft cloth.

- If you open the cover before the camera is thoroughly dried, water droplets may fall on a memory card or battery.
 - The water droplets may also seep inside the battery-chamber/memory card slot cover (in locations such as waterproof packing, hinges, memory card slot, or terminals).
 - If that happens, wipe the water off with a dry soft cloth.
- If the cover is closed when the inside is wet, this could cause condensation or malfunction.
- If the microphone or speaker openings are clogged with water droplets, the sound may deteriorate or become distorted.
 - Wipe the water off with a dry soft cloth.
 - Do not puncture the microphone or speaker openings with a sharp implement. If the inside of the camera is damaged, the waterproof performance will deteriorate.

Notes on operating temperature and humidity and condensation

The operation of this camera has been tested at temperatures from -10 $^{\circ}$ C to +40 $^{\circ}$ C (14 $^{\circ}$ F to 104 $^{\circ}$ F).

When you use the camera in cold climate regions, observe the following precautions. Keep the camera and spare batteries in a warm place before use.

- The performance of the batteries (number of pictures shot and shooting time) will
 drop temporarily.
- If the camera is in a very cold state, the performance may drop temporarily, for example, the monitor may be darker than normal immediately after the camera is turned on or residual images may be produced.
- When snow or water droplets adhere to the exterior of the camera, immediately wipe them off.
 - If the buttons or switches are frozen, they may not operate smoothly.
 - If the microphone or speaker openings are clogged with water droplets, the sound may deteriorate or become distorted.
- Operating environmental conditions such as temperature and humidity may cause fogging (condensation) on the inside of the monitor or lens. This is not the camera malfunction or defect.



Environmental conditions that are likely to cause condensation inside of the camera

Fogging (condensation) may occur on the inside of the monitor or lens in the following environmental conditions where there are sharp temperature changes or high humidity.

- The camera is suddenly immersed in low temperature underwater from high temperature on land.
- The camera is brought to a warm place such as inside a building from the cold climate outside.
- The battery-chamber/memory card slot cover is opened or closed in a high-humidity environment.

Clearing the fogging

- Open the battery-chamber/memory card slot cover after turning off the camera in a place where the ambient temperature is stable (avoid any place that has hightemperature/high-humidity, sand or dust).
 - To clear the fogging, remove the battery and memory card, and leave the camera with the battery-chamber/memory card slot cover open to allow the camera to adjust to the ambient temperature.
- If the fogging does not clear, consult your retailer or Nikon-authorized service representative.

Notes on GPS/digital compass

Map/location name data of this camera

Before using the GPS function, make sure to read "USER LICENSE AGREEMENT FOR MAP DATA AND LOCATION NAME DATA" (35) and agree to the terms.

- The maps and location name information (Point of Interest: POI) are as of December 2010.
 The maps and location name information will not be updated.
- The details of geological formations are displayed simplistically according to the scale
 of a map. The scale of a map and level of detail of the location information vary
 depending on country and region.
 - If the latitude becomes higher, the horizontal and vertical scales displayed on the monitor vary, therefore displayed geological formations differ from the actual formations. Use the maps and location name information only as a guide.

Notes on GPS/digital compass

- Do not operate the GPS/digital compass while you are driving a car.
- Use information (such as direction and distance) measured by the camera as a guideline only.
 This information cannot be used for navigation of an airplane, car, and person or land survey applications.
- When you use the camera for mountain climbing, trekking, or underwater, be sure to take a map, navigation device, or measuring instrument separately.
- When the camera lens is facing upward, the digital compass is not displayed.
- An individual may be identified from still pictures or movies that have been recorded with location information.
 - Observe caution when you transfer still pictures or movies recorded with location information, or GPS log files to a third party or upload them to a network such as the Internet where the public can view them.
- Be sure to read "Disposing of Data Storage Devices" (\(\sum v\)).

 When the Record GPS data of the GPS options menu is the surface of the GPS options.

When the Record GPS data of the GPS options menu is On, the GPS function will continue to operate even when the camera is turned off.

- The electromagnetic waves emitted from the camera may affect the measuring instruments of an airplane or medical equipment.
 - When use of the camera is prohibited during airplane takeoffs and landings or inside a hospital, set the **Record GPS data** to **Off** and turn off the camera.
- When the **Record GPS data** is set to **On**, the battery will be drained, even when the camera is turned off.

Using the camera overseas

- Before taking the camera with GPS function overseas for travel, consult your travel agency or embassy of the country you are visiting to confirm whether there is any restriction on use.
 - For example, you cannot record location information logs without permission from the government in China.
 - Set the Record GPS data of the GPS options menu to Off.
- The GPS may not function properly in China and on the borders between China and neighbouring countries (as of December 2010).

Table of Contents

Introduction	ii
Read This First	ii
Confirming the Package Contents	ii
About This Manual	iii
Information and Precautions	iv
For Your Safety	vi
WARNINGS	vi
Notices	ix
<important> Shockproof, waterproof, dustproof, condensation,</important>	
GPS/digital compass	xi
Notes on shockproof performance	
Notes on waterproof and dustproof performances	xi
Before using the camera underwater	xii
Notes on using the camera underwater	xiii
Cleaning after using the camera underwater	xiii
Notes on operating temperature and humidity and condensation	XV
Notes on GPS/digital compass	xvi
Parts of the Camera and Basic Operations	
Parts of the Camera	2
The Camera Body	2
Controls Used in Shooting Mode	4
Controls Used in Playback Mode	5
The Monitor	6
Basic Operations	9
Switching Between Shooting Mode and Playback ModeMode	9
Using the Multi Selector	10
Using Menus (the MENU Button)	11
Using the Action Button	13
Attaching the Camera Strap for Land Use	14
Use of the Filter Adapter and the Attachment Method	14

The Basics of Shooting and Playback	15
Preparation 1 Charge the Battery	16
Preparation 2 Insert the Battery	18
Preparation 3 Insert a Memory Card	20
Internal Memory and Memory Cards	21
Approved Memory Cards	21
Step 1 Turn the Camera On	
Turning the Camera On and Off	
Setting the Display Language, Date, and Time	24
Step 2 Select a Shooting Mode	26
Available Shooting Modes	27
Step 3 Frame a Picture	28
Using the Zoom	29
Step 4 Focus and Shoot	30
Step 5 Play Back Images	32
Changing How Images Are Displayed	33
Step 6 Delete Unwanted Images	
Shooting Features	
🗗 (Easy Auto) Mode	
Changing 🗗 (Easy Auto) Mode Settings	38
Scene Mode (Shooting Suited to Scenes)	
Changing Scene Mode Settings	39
Characteristics of Each Scene	40
Special Effects Mode (Applying Effects When Shooting)	47
Characteristics of Each Special Effect	47
Changing Special Effects Mode Settings	
Smart Portrait Mode (Shooting Smiling Faces)	49
Changing Smart Portrait Mode Settings	50
Options Available in the Smart Portrait MenuMenu	50
🗖 (Auto) Mode	51
Changing 🗖 (Auto) Mode Settings	51
Options Available in the Shooting Menu (🗖 (Auto) Mode)	51
Features That Can Be Set Using the Multi Selector	53
Available Functions	53
Flash Modes (Using the Flash)	54
Using the Self-timer	56
Using Macro Mode	
Exposure Compensation (Adjusting Brightness)	58
Default Settings	59

Changing the Image Size (Image Mode)	61
Image Mode Settings (Image Size and Quality)	61
Changing the Image Size (Image Mode) Image Mode Settings (Image Size and Quality) Features That Cannot Be Used Simultaneously Using Face Detection Using Skin Softening Focus Lock	63
Using Face Detection	65
Using Skin Softening	66
Selecting Certain Types of Images for Playback	70
Switching Between Playback Modes	7(
Features Available in Playback Mode (Playback Menu)	71
Using ViewNX 2	74
Installing ViewNX 2	74
Transferring Images to the Computer	76
Viewing Images	77
Retouching Photographs	78
Editing Movies	78
9 9	
Recording Movies	80
Changing Movie Recording Settings (Movie Menu)	83
, 3	
Starting GPS Data Recording	86
Displaying Maps	88
When Using Shooting Mode	88
When Using Playback Mode	88
Changing the GPS or Electronic Compass Settings (Map Menu)	90
General Camera Setup	93
The Setup Menu	94

Reference Section	6-6 1
Using Easy Panorama (Shooting and Playing back)back)	6—62
Taking Pictures with Easy Panorama	
Viewing Easy Panorama (Scroll)	
Using Panorama Assist	🏍 5
Playing and Deleting Images Captured Using Continuous Shooting Mode	
(Sequence)	🏍 7
Playing Images in a Sequence	~ 7
Deleting Images in a Sequence	8
Favorite Pictures Mode	6-6 9
Adding Images to Albums	9
Playing Back Images in Albums	🏍 10
Removing Images From Albums	🏍 10
Changing the Favorites Album Icon	6-6 11
Auto Sort Mode	🏍12
List by Date Mode	6—614
Editing Images (Still Pictures)	🖰 15
Editing Features	
🝊 Quick Retouch: Enhancing Contrast and Saturation	
🗗 D-Lighting: Enhancing Brightness and Contrast	6–6 17
👺 Glamour Retouch: Making Facial Skin Tones Softer, Face Smaller, or	
Eyes Larger	
🛭 Filter Effects: Applying Digital Filter Effects	
lacktriangledown Small Picture: Reducing the Size of an Image	
🐰 Crop: Creating a Cropped Copy	
Connecting the Camera to a TV (Playback on a TV) TV	
Connecting the Camera to a Printer (Direct Print)	
Connecting the Camera to a Printer	
Printing Individual Images	
Printing Multiple Images	
Editing Movies	
Extracting Only the Desired Portions of the Movie	
The Smart Portrait Menu	
Image Mode (Image Size and Quality)	
Skin Softening	
Smile Timer	
Blink Proof	& 33

The Shooting Menu ((Auto) Mode)	~ 34
Image Mode (Image Size and Quality)	~ 34
White Balance (Adjusting Hue)	~ 34
Continuous Shooting	~ 36
ISO Sensitivity	~ 37
AF Area Mode	~ 38
Subject Tracking Mode (Focusing on a Moving Subject)	~ 40
Autofocus Mode	~ 41
The Playback Menu	
A Print Order (Creating a DPOF Print Order)	~ 42
■ Slide Show	~ 45
On Protect	~ 46
The Image Selection Screen	~ 47
🗗 Rotate Image	~ 48
	~ 49
🔀 Copy (Copy Between Internal Memory and Memory Card)	
Sequence Display Options	🖰51
Ghoose Key Picture	51
The Movie Menu	
Movie Options	~ 52
Open with HS Footage	~ 53
Recording Movies in Slow Motion and Fast Motion (HS Movie)	~ 54
Autofocus Mode	~ 56
Movie Light	⇔ 56
Wind Noise Reduction	~ 56
Map Menu	5 ~ 57
GPS Settings	~ 57
Distance Units	~ 58
Calculate Distance	~ 59
Points of interest (POI) (Recording and Displaying Location	
Name Information)	<i>6</i> 60
Create Log (Record the log of moving information)	~ 61
View Log (View the log on a map)	~ 63
Electronic Compass	~ 64

The Setup Menu	0=0 66
Welcome Screen	
Time Zone and Date	
Monitor Settings	
Print Date (Imprinting Date and Time on Pictures)	
Vibration Reduction	
Motion Detection	
AF Assist	
Digital Zoom	
Sound Settings	
Action Control Response	
Auto Off	
Format Memory/Format Card	
Language	
TV Settings	
Blink Warning	
Assign Action Button	
Reset All	
Firmware Version	
File and Folder Names	
Optional Accessories	
Error Messages	
LITOI Wessages	
Technical Notes and Index	
Caring for the Products	
The Camera	
The Battery	
The Battery Charger	
The Memory Cards	
Caring for the Camera	
Cleaning	\d -7
Storage	
USER LICENSE AGREEMENT FOR MAP DATA AND LOCATION NAME DATA	
Troubleshooting	
Specifications	
Supported Standards	
Index	-,



Parts of the Camera and Basic Operations

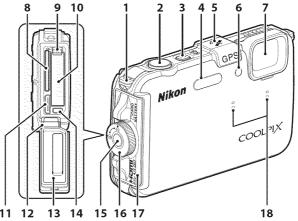
This chapter describes the parts of the camera and also explains the main functions of each part and basic camera operations.

Parts of the Camera	2
The Camera Body	
Controls Used in Shooting Mode	
Controls Used in Playback Mode	
The Monitor	
Basic Operations	g
Switching Between Shooting Mode and Playback Mode	
Using the Multi Selector	
Using Menus (the MENU Button)	
Using the Action Button	
Attaching the Camera Strap for Land Use	
Use of the Filter Adapter and the Attachment Method	14

If you want to start using the camera right away, see "The Basics of Shooting and Playback" (Ω 15).

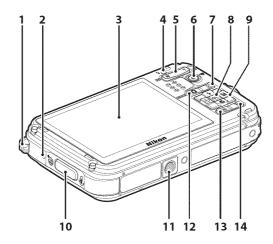
Parts of the Camera

The Camera Body



N.	Eyelet for camera strap	. 14
2	Shutter-release button4,	30
3	Power switch/power-on lamp	. 23
4	Flash	.54
5	GPS antenna	. 86
6	Self-timer lamp AF-assist illuminator Movie illuminator	.95
7	Lens	
8	Memory card slot	.20
9	Battery latch18,	19

10	Battery chamber1	8
11	HDMI mini connector (Type C)7	73
12	Hinge	κij
13	Waterproofing packingx	iii
14	USB/Audio video connector7	/3
15	Battery-chamber/memory card slot cover latch release18, 2	20
16	Battery-chamber/memory card slot cover latch18, 2	20
17	Battery-chamber/ memory card slot cover18, 2	20
18	Microphone (stereo)71, 8	30



7	Eyelet for camera strap	14
2	Speaker71,84,	95
3	Monitor6,	26
4	Flash lamp	54
5	Zoom buttons	29 29 33 33
6	● (*▼ movie-record) button	80
7	▶ (playback) button9,	32

8	(apply selection) button10
9	Multi selector10
10	Action button
11	Tripod socket
12	(shooting mode) button9, 26
13	MENU (menu) button11, 50, 51, 83
14	(delete) button34, 84

Controls Used in Shooting Mode

Control	Name	Main Function	
	(shooting mode) button	Change the shooting mode (displays the shooting-mode selection screen).	26
⊠ W T Q	Zoom buttons	Press T (Q) (telephoto zoom position) to zoom in, and W (□) (wide-angle position) to zoom out.	29
\$ 0K 12	Multi selector	See "Using the Multi Selector" for more information.	10
MENU	MENU (menu) button	Display and hides the menu.	11
	Shutter- release button	When pressed halfway (i.e., if you stop pressing when you feel resistance slightly): Set focus and exposure. When pressed all the way (i.e., if you press the button all the way down): Release the shutter.	30
● *	● (*★ movie- record) button	Start and stop movie recording.	80
	Playback button	Play back images.	9, 32
Í	Delete button	Delete the last image that was saved.	34
W	Action button	 Operate the function when the camera is shaken. Display the current location on a map. 	13 13

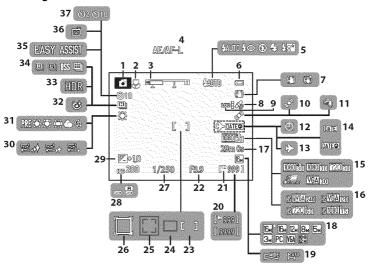
Controls Used in Playback Mode

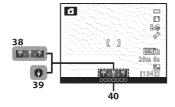
Control	Name	Main Function	
	Playback button	When the camera is turned off, press and hold this button to turn the camera on in playback mode. Return to shooting mode.	23 9
⊗ W T °	Zoom buttons	 Magnify the image with T (Q); display image thumbnails or the calendar with W (Ea). Adjust the volume for voice memo and movie playback. 	33 71,84
OK M	Multi selector	See "Using the Multi Selector" for more information.	10
S OK B	Apply selection button	Display individual images of a sequence in full-frame. Scroll a picture recorded with easy panorama. Play back movies. Switch from image thumbnail or zoomed image display to full-frame playback mode.	10 10 84 10
(MENU (MENU (menu) button	Display and hide the menu.	11
	Delete button	Delete images.	34
	(shooting mode) button		
<u></u>	Shutter- release button	Return to shooting mode.	_
•	● (*▼ movie- record) button		
	Action button	Display the location of a picture taken on a map.	13

The Monitor

 The information that is displayed on the monitor during shooting and playback changes depending on the camera's settings and state of use. Information is displayed when the camera is first turned on and when you operate the camera, and turns off after a few seconds (when **Photo info** in **Monitor settings** (□94) is set to **Auto info**).

Shooting Mode

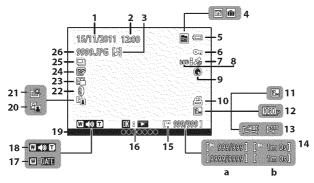




1	Shooting mode26, 27
2	Macro mode57
3	Zoom indicator29
4	AE/AF-L indicator
5	Flash mode54
6	Battery level indicator22
7	Vibration reduction icon94
8	GPS reception86
9	Log display91
10	Motion detection icon95
11	Wind noise reduction83
12	"Date not set" indicator25, 94
13	Travel destination indicator94
14	Print date94
15	Movie options83
16	HS movie options83
17	Movie length80, 82
18	Image mode61
19	Easy panorama45
20	Number of exposures remaining (still pictures)22,62
21	Internal memory indicator22
22	Aperture value30

23	Focus area (for manual, center)	
	30,	52
24	Focus area (for auto)	52
25	Focus area (for face detection,	
7.40	pet detection)46, 52,	65
26	Focus area (for subject tracking)	52
27	Shutter speed	30
28	ISO sensitivity28,	52
29	Exposure compensation value	58
30	Skin softening	50
31	White balance	52
32	Blink proof icon	50
33	Backlighting (HDR)	44
34	Continuous shooting mode	52
35	Panorama shooting	45
36	Smile timer	50
37	Self-timer	56
38	Compass display (Direction gauge)	
50		91
39	Compass display (Compass)	91
40	Location name information	
-10	(POI information)	91

Playback Mode



٦̈́	Date of recording	24
2	Time of recording	24
€	Voice memo indicator	71
	Album icon in favorite pictures mod	
4	Category icon in auto sort mode List by date mode	70
5	Battery level indicator	22
6	Protect icon	71
7	GPS reception	86
8	Log display	91
9	Compass display (Compass)	91
10	Print order icon	71
11	Image mode	61
12	Movie options	83
13	Easy panorama indicator	45
14	(a) Current image number/total number of images(b) Movie length	

15	Internal memory indicator3	32
V XX	Easy panorama playback guide	
16	Sequence playback guide	57
17	List by date guide	4
18	Volume indicator71, 8	34
19	Location name information (POI information)	91
20	D-Lighting icon	/1
21	Quick retouch icon	1
22	Filter effects icon	1
23	Small picture71, 6-6 2	21
24	Glamour retouch icon	1
25	Sequence display	2
26	File number and type	35

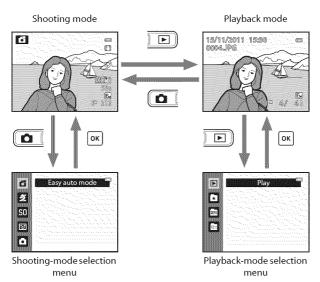
Basic Operations

Switching Between Shooting Mode and Playback Mode

The camera has two modes of operation: Shooting mode, which is used for taking pictures, and playback mode, which is used for viewing pictures.

Press the (playback) button to switch to playback mode.

Press the (shooting mode) button to switch to shooting mode.

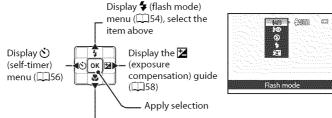


- If you press the ♠ (shooting mode) button while the shooting mode is displayed, the shooting-mode selection menu is displayed, from which you can select one of the available shooting modes (♠26, 27).
- If you press the **()** (playback) button while the playback mode is displayed, the playback-mode selection menu is displayed, from which you can select one of the available playback modes (() 70).
- Use the multi selector to select a shooting mode or playback mode (110).

Using the Multi Selector

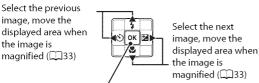
Operate by pressing up (\triangle), down (∇), left (\triangleleft), right (\triangleright), or the \otimes button.

When Using Shooting Mode



Display 🕷 (macro mode) menu (🕮 57), choose the item below

When Using Playback Mode

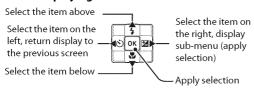




Plays back images of a sequence (��7), plays back panorama pictures (��4), plays back movies (□84)*

* When displaying image thumbnails or when the image is magnified, this button switches the camera to full-frame playback mode.

When Displaying Menus

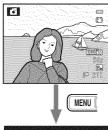




Using Menus (the MENU Button)

When the **MENU** button is pressed while the shooting screen or playback screen is displayed, the menu for the current mode is displayed. Once the menu is displayed, various settings can be changed.

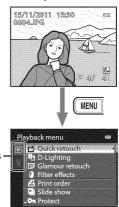
Shooting mode





- ntab:
 - Displays available settings in the current shooting mode (\square 27). Depending on the current shooting mode, the tab icon that is displayed will be different.
- tab: Displays the settings that deal with movie recording.
- tab:
 Displays the setup menu (basic camera setup) items.

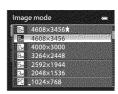
Playback mode



- ► tab:
 - Displays available settings in the current playback mode (\$\sum_70\$). Depending on the current playback mode, the tab icon that is displayed will be different.
- tab:
 Displays the setup menu (basic camera setup) items.

If Tabs Are Not Displayed

If you press the MENU button and the screen that allows you to change the image mode is displayed, press \blacktriangleleft to display the tabs.



Switching Between Tabs

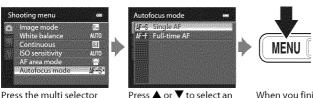


Press the multi selector ◀ to highlight the tab.

Press the multi selector ▲
or ▼ to select a tab, and
press the
 button or ▶.

The selected menu is displayed.

Selecting Menu Items



A or ▼ to select an item, and then press ▶ or the button.

When you finish changing settings, press the MENU (menu) button to exit the menu.

Displayed When the Menu Contains Two or More Pages



The scroll bar is displayed to indicate the current page.

Using the Action Button

When the action button is pressed, either of the following operations set in **Assign action button** of the setup menu (294) can be performed.

- Display maps.
- Perform the function by shaking the camera (action control).

Milhar OCCLIFY

Display map

Display the current location on a map during shooting (only when **Record GPS data** in **GPS options** of the map menu (\$\square\$186) is set to **On**).

Display the shooting location of an image on a map during playback (only images on which position information is recorded).



Action control

As shown in the illustration, use your wrist and shake the camera for a single up/down or forward/backward stroke to perform the functions.



In the action menu, you can select the following options by shaking the camera up/down or forward/backward.

- Shooting mode: You can select the Easy auto mode, Auto mode, Beach, Snow, Landscape and Underwater modes.
- **Start movie recording**: Press the action button to begin shooting. Press the button again to exit shooting.
- Quick playback: Display images in full-frame playback mode.
- Current position: Display the current location on a map (only when **Record GPS data** in **GPS options** of the map menu (\(\subseteq\) 86) is set to **On**).

Press the action button to select the function.

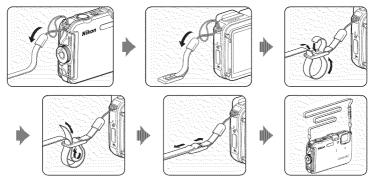
In **Quick playback** or full-frame playback mode, shake the camera up/down to display the next image or forward/backward to display the previous image.

Notes on Action Control

- When using the action control, be sure to hold the camera firmly by passing your hand through the camera strap.
- In the action control, only the action button, shutter-release button and power switch can be used.
- Action control may not perform well depending on how the camera is shaken. Change the Action control response (295).

Attaching the Camera Strap for Land Use

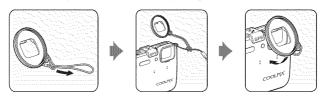
Remove the strap for land use before using the camera underwater.



Use of the Filter Adapter and the Attachment Method

Use the included filter adapter to attach a commercially available ϕ 40.5 mm filter. The filter adapter is used in cases such as when attaching the color filter or polarizing filter.

Attach the filter adapter to the camera strap using a cord.



Note on Using the Filter Adapter

Lights of AF-assist illuminator/movie illuminator (\square 2) are blocked out when the filter adapter is attached. Set AF illuminator (\square 95) and movie illuminator (\square 83) to **Off** when using the filter adapter.



The Basics of Shooting and Playback

Preparation

Preparation 1 Charge the Battery16	5
Preparation 2 Insert the Battery18	3
Preparation 3 Insert a Memory Card20)



Shooting

Step 1 Turn the Camera On22
Setting the Display Language, Date, and Time (First Use Only)24
Step 2 Select a Shooting Mode
Step 3 Frame a Picture
Step 4 Focus and Shoot30

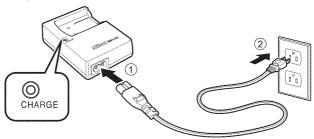


Playback

Step 5 Play Back Images	32	
Step 6 Delete Unwanted Image	34	

Preparation 1 Charge the Battery

1 Connect the power cable in the order indicated below.



- 2 Insert the battery into the battery charger by sliding the battery forward (1), and press down until it locks into place (2).
 - CHARGE lamp starts blinking when charging starts.
 - A fully-exhausted battery charges in about two hours and 30 minutes.
 - When charging is complete, the CHARGE lamp stops blinking.
 - See "Understanding CHARGE Lamp" (117).



3 When charging is complete, remove the battery, and then unplug the charger.

Understanding CHARGE Lamp

Status	Description
Blinks	Battery charging.
On	Battery fully charged.
Flickers	 The battery is not inserted correctly. Remove the battery and reinsert it into the battery charger so that the battery is lying flat. The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F) before use. The battery is faulty. Stop charging immediately, unplug the charger, and take both the battery and charger to your retailer or Nikon-authorized service representative.

Notes on Battery Charger

- Be sure to read and follow the warnings of "For Your Safety" (QQvi) thoroughly before using the Battery Charger.
- Be sure to read and follow the warnings for "The Battery Charger" (5) thoroughly before using
 the battery.

Notes on Battery

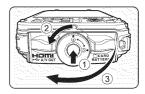
- Be sure to read and follow the warnings of "For Your Safety" (\(\sum_{\text{V}}\)\vi) thoroughly before using the battery.
- $\bullet \ \ \text{Be sure to read and follow the warnings for "The Battery"} (\rlap/\varpi^{\!\raisebox{1pt}{\cdot}}4) \ \text{thoroughly before using the battery}.$

AC Power Supply

- If the AC Adapter EH-62F (available separately) (\$\infty\$87) is used, power is included to the camera from an electrical outlet, enabling taking and playing back pictures.
- Do not, under any circumstances, use an AC Adapter other than the EH-62F. Failure to observe this
 precaution could result in overheating or in damage to the camera.

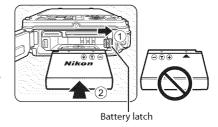
Preparation 2 Insert the Battery

1 Press the battery-chamber/memory-card slot cover latch release (1) and rotate the battery-chamber/memory-card slot cover latch (2) to open the cover (3).



2 Insert the battery.

- Use the battery to push the orange battery latch in the direction shown (1), and fully insert the battery (2).
- When the battery is fully inserted, the battery latch locks it in place.



Inserting the Battery Correctly

Inserting the battery upside down or backwards could damage the camera. Be sure to confirm that the battery is in the correct orientation.

- **3** Push the battery chamber/memory card slot-cover to the camera (1) and rotate the battery chamber/ memory card slot-cover latch until the cover is locked (2).
 - Rotate the battery-chamber/memory-card slot cover latch until it clicks into place.

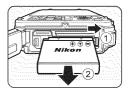


Note on Closing the Cover without Getting the Camera Strap or Cord Caught

If the camera strap or filter adapter's cord gets caught in the battery-chamber/memory card slot cover when it is closed, the cover could be damaged. Before closing the battery-chamber/memory card slot cover, make sure that the strap or cord does not get caught in it.

Removing the Battery

Before opening the battery-chamber/memory card slot cover, turn the camera off (\square 23) and confirm that the power-on lamp and the monitor are off. To eject the battery, open the battery-chamber/memory card slot cover and slide the orange battery latch in the direction shown (①). Then, remove the battery straight (②).



High Temperature Caution

The camera, battery, and memory card may be hot immediately after using the camera. Observe caution when removing the battery or memory card.

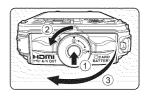
Opening/Closing the Battery Chamber/Memory Card Slot-Cover

Do not open and close the battery chamber/memory card slot-cover in a sandy or dusty environment or with wet hands. If the cover is closed without removing foreign particles, water may seep inside the camera or the camera may become damaged.

- If foreign particles get inside the cover or camera, immediately remove them with a blower or brush.
- If liquid such as water gets inside the cover or camera, immediately wipe it off with a soft and dry cloth.

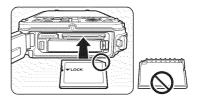
Preparation 3 Insert a Memory Card

- Confirm that the power-on lamp and the monitor are turned off and open the battery-chamber/memory card slot cover.
 - Be sure to turn off the camera before opening the cover.



- **2** Insert the memory card.
 - Slide the memory card until it clicks into place.
 - Inserting the Memory Card Correctly

Inserting the memory card upside down or backwards could damage the camera or the memory card. Be sure to confirm that the memory card is in the correct orientation.



3 Close the battery-chamber/memory card slot cover.



Note on Closing the Cover without Getting the Camera Strap or Cord Caught

If the camera strap or filter adapter's cord gets caught in the battery-chamber/memory card slot cover when it is closed, the cover could be damaged. Before closing the battery-chamber/memory card slot cover, make sure that the strap or cord does not get caught in it.

Formatting a Memory Card

- The first time you insert a memory card that has been used in another device into this camera, be sure to format it with this camera.
- All data stored on a memory card is permanently deleted when the card is formatted. Be sure to make copies of any data you wish to keep before formatting the memory card.
- To format a memory card, insert the memory card into the camera and press the MENU button, and select Format card from the setup menu (2194).

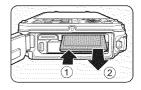
Note on Memory Cards

Refer to the documentation included with the memory card, as well as "The Memory Cards" ($\overset{\leftarrow}{\wp}$ 6) in "Caring for the Products".

Removing Memory Cards

Before opening the battery-chamber/memory card slot cover, turn the camera off and confirm that the power-on lamp and the monitor are off.

Press the memory card in lightly with your finger $(\widehat{\mathbf{1}})$ to partially eject it, and then pull it out straight $(\widehat{\mathbf{2}})$.



High Temperature Caution

The camera, battery, and memory card may be hot immediately after using the camera. Observe caution when removing the battery or memory card.

Internal Memory and Memory Cards

Camera data, including images and movies, can be saved in either the camera's internal memory (approximately 83 MB) or on a memory card. To use the camera's internal memory for shooting or playback, first remove the memory card.

Approved Memory Cards

The following Secure Digital (SD) memory cards have been tested and approved for use in this camera.

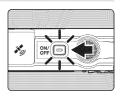
 When recording a movie onto a memory card, a memory card with an SD speed class of Class 6 or higher is recommended. If the transfer speed of the card is slow, the movie recording may end unexpectedly.

	SD memory cards ¹	SDHC memory cards ²	SDXC memory cards ³
SanDisk	2 GB	4 GB, 8 GB, 16 GB, 32 GB	64 GB
TOSHIBA	2 GB	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Panasonic	2 GB	4 GB, 8 GB, 12 GB, 16 GB, 32 GB	48 GB, 64 GB
Lexar	-	4 GB, 8 GB, 16 GB, 32 GB	-

- 1 Before using a card reader or similar device, check that the device supports 2 GB cards.
- 2 SDHC-compliant. Before using a card reader or similar device, check that the device supports SDHC.
- 3 SDXC-compliant. Before using a card reader or similar device, check that the device supports SDXC.
- Contact the manufacturer for details on the above cards.

Step 1 Turn the Camera On

- **1** Press the power switch to turn on the camera.
 - If you are turning the camera on for the first time, see "Setting the Display Language, Date, and Time" (224).
 - The monitor is turned on.



2 Check the battery level and number of exposures remaining.

Battery level indicator



Number of exposures remaining

Battery Level

Display	Description
	Battery level high.
	Battery level low. Prepare to charge or replace the battery.
⊕ Battery exhausted.	Cannot take pictures. Charge or replace the battery.

Number of Exposures Remaining

The number of exposures remaining is displayed.

- When a memory card is not inserted, \(\bigcap\) is displayed and images are recorded to the internal memory (approx. 83 MB).
- The number of pictures that can be stored depends on the remaining capacity of the internal memory or memory card, and the image quality and image size (image mode) (\$\sum_{6}\$1).
- The number of exposures remaining shown in the illustration differs from the actual value.

Turning the Camera On and Off

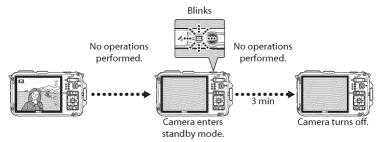
- When the camera is turned on, the power-on lamp (green) lights, and the monitor is turned on (the power-on lamp turns off when the monitor is turned on).
- To turn off the camera, press the power switch. Both the monitor and the power-on lamp are turned off.
- Hold down the 🕨 (playback) button to turn on the camera in playback mode.

Power Saving Function (Auto Off)

If no operations are performed for a while, the monitor will be turned off, the camera will enter standby mode, and the power-on lamp will blink. If no operations are performed for another three minutes, the camera will turn off automatically.

While the camera is in standby mode, the monitor is turned on again when any of the following buttons is pressed.

→ Power switch, shutter-release button, 🗖 (shooting mode) button, 🖪 (playback) button, or ● (*▼ movie-record) button



- The time that elapses before the camera enters standby mode can be changed using the Auto off setting in the setup menu (194).
- In the default setting, the camera enters standby mode in about five minutes when you are using shooting mode or playback mode.
- If you are using the optional AC Adapter EH-62F, the camera enters standby mode after 30 minutes.

Setting the Display Language, Date, and Time

Dialogs for language selection and camera clock setting are displayed the first time the camera is turned on.

1 Press the multi selector ▲ or ▼ to choose the desired language and press the ເ button.



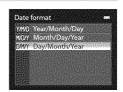
- Press ▲ or ▼ to choose **Yes** and press the ® button.
 - To cancel setting, select No.







4 Press ▲ or ▼ to choose the date display order and press the ® button or ▶.



5 Press ▲, ▼, ◀ or ▶ to set date and time, and press the ເ button.

- To set the contents: Press ▲ or ▼.
- · After finishing the setting, the shooting screen is displayed.

Daylight Saving Time

If daylight saving time is in effect, press the multi selector **\(\)** to enable the daylight saving time function while setting the region in step 3.

When the daylight-saving time function is enabled, **%** is displayed at the top of the monitor.

Press ∇ to disable the daylight saving time function.





Changing the Language Setting and the Date and Time Setting

- If you exit without setting the date and time, will blink when the shooting screen is displayed. Use the **Time zone and date** setting in the setup menu (CD94) to set the date and time.

The Clock Battery

- The camera's clock is powered by a backup battery that is separate from the camera's main battery.
- The backup battery charges after about ten hours of charging when the main battery is inserted
 into the camera or when the camera is connected to an optional AC adapter, and can store the set
 date and time for several days.
- If the camera's backup battery becomes exhausted, the date and time setting screen is displayed
 when the camera is turned on. Set the date and time again. See step 2 of "Setting the Display
 Language, Date, and Time" (\$\sum_2\$2) for more information.

Imprinting the Shooting Date in Printed Images

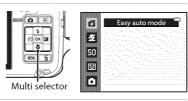
- · Set the date and time before shooting.
- You can imprint the shooting date in images as they are captured by setting **Print date** in the setup menu (194).
- If you want the shooting date to be printed without using the **Print date** setting, print using the ViewNX 2 software (\$\sum_{17}\$4).

Step 2 Select a Shooting Mode

- 1 Press the d button.
 - The shooting-mode selection menu which allows you to select the desired shooting mode, is displayed.



- Press the multi selector ▲ or ▼ to select a shooting mode.
 - 🛱 Easy auto mode is used in this example. Select 🗗 Easy auto mode.



- **3** Press the **®** button.
 - The camera switches to **(*)** (easy auto) mode. The shooting mode icon changes to **(*)**, **(*)**, **(*)**, **(*)**, **(*)**, **(*)**, **(*)** or **(*)** according to the subject and composition.



- See "The Monitor" (QQ6) for more information.
- The selected shooting mode is saved even if the power is turned off.

Available Shooting Modes

Easy auto mode By simply framing a picture, the camera automatically selects the optimum scene

mode for simple shooting.

2 Scene Q39

Camera settings are automatically optimized for the selected scene.

To select a scene, first display the shooting-mode selection menu and then
press the multi selector ▶. Select the desired scene by pressing ▲, ▼, ◄, or ▶,
and then press the ® button.

SO Special effects Q147

Effects can be applied to pictures during shooting. Six different effects are available.

To select an effect, press the multi selector
in the shooting-mode selection menu, press

,

,

,

or
to select effects, and press the
button.

☑ Smart portrait □□49

The camera detects smiling faces and automatically releases the shutter even if you don't press the shutter-release button (smile timer). The skin softening function makes facial skin tones softer.

function makes facial skin tones softer.

Basic shooting operations can be performed. Also, change the settings for the options in the shooting menu (D51) according to the shooting conditions and the kind of images you want to capture.

Features That Are Available in Shooting Mode

- The functions of the multi selector ▲ (♣), ▼ (♠), (♦) or ▶ (☒) can be set. See "Features That
 Can Be Set Using the Multi Selector" (☒53) for more information.
- Press the MENU button to display the menu for the selected shooting mode. See "Shooting Features" (2238) for more information about the settings available in the menu for the current shooting mode.

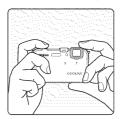
Action Control

When **Assign action button** in the setup menu (\square 94) is set to **Action control**, the shooting mode can be switched by action control (\square 13).

Step 3 Frame a Picture

1 Ready the camera.

- Keep your fingers, hair, camera strap and other objects away from the lens, flash, AFassist illuminator and microphone.
- To shoot in the "tall" orientation, hold the camera so that the flash is above the lens.





2 Frame the picture.

- When the camera determines a scene mode, the shooting mode icon changes (□26).
- When the camera detects a face, a yellow double border (focus area) is displayed.
 See "Using Face Detection" (\(\sum_65\)) for more information.



When non-human subjects are photographed, or a subject with which no face can be
detected is framed, the focus area is not displayed. Position the main subject near the
center of the monitor.

Notes on 🗗 (Easy Auto) Mode

- When the digital zoom is in effect, the shooting mode is set to
- Depending upon shooting conditions, the camera may not select the desired scene mode. In this
 case, select another shooting mode.

ISO Sensitivity

(SO) (ISO sensitivity, \square 7) may be displayed on the shooting screen. When **(SO)** is displayed, the ISO sensitivity is automatically raised.

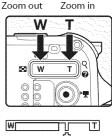
Using a Tripod

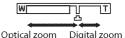
- In the following situations, use of a tripod is recommended to stabilize the camera during shooting and to avoid the effects of camera shake.
 - When shooting in dark surroundings or when flash mode (\square 54) is set to \odot (off)
 - When shooting at the telephoto zoom position
- To take a picture with the camera attached to a tripod, set Vibration reduction in the setup menu (2094) to Off.

Using the Zoom

Press the zoom buttons to activate the optical zoom.

- The subject fills a larger area of the frame: Press T (zoom in).
- The area visible increases in the frame: Press W (zoom out).
- When the power is turned on, the zoom is at the maximum wide-angle position.
- A zoom position is displayed at the top of the monitor when the zoom button is pressed.





Digital Zoom

If the zoom button ${\bf T}$ is pressed continuously when optical zoom is set at the maximum telephoto zoom position (maximum optical zoom), digital zoom will be activated.

Digital zoom can magnify the subject up to about 4× beyond the maximum magnification of the optical zoom.



 The focus will be at the center of the frame and the focus area will not be displayed when the digital zoom is in effect.

Digital Zoom and Interpolation

Unlike the optical zoom, the digital zoom uses a digital imaging process known as interpolation to magnify images, resulting in slight deterioration of image quality depending on the image mode (\square 61) and digital zoom magnification.

Interpolation is applied at zoom positions beyond 🕰. When the zoom is increased beyond the 🕰 position, interpolation is initiated and the zoom indicator also turns yellow.

△ moves right as the image size becomes smaller, allowing you to confirm the zoom position that can be used to capture still images without image degradation before shooting at the current image mode setting.



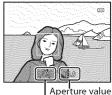
Using **Digital zoom** in the setup menu (

94), it is possible to set the digital zoom so that it does
not operate.

Step 4 Focus and Shoot

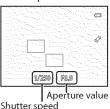
- 1 Press the shutter-release button halfway, i.e., press the button slightly until you feel resistance.
 - When you press the shutter-release button halfway, the camera sets the focus and exposure (shutter speed and aperture value). Focus and exposure remain locked while the shutter-release button is pressed halfway.
 - When a face is detected:
 Focuses on the face around which a double border (focus area) is displayed (see "Using Face Detection" (\(\subseteq 65\)) for more information). When the camera has focused on that face, the double border will turn green.





Aperture shutter speed

When a face is not detected:
 Focuses on the focus area selected by the camera according to the shooting scene. When the subject is in focus, the focus area (active focus area) lights in green (maximum of nine areas).



- When the digital zoom is in effect, the camera focuses on the subject at the center of
 the frame, and the focus area is not displayed. When the subject is in focus, the focus
 indicator (□6) lights in green.
- When the shutter-release button is pressed halfway and the focus area or focus indicator may blink red, the camera is unable to focus. Change the composition and press the shutter-release button halfway again.
- **2** Press the shutter-release button all the way, i.e., press the button the rest of the way down.
 - The shutter is released and the picture is recorded.
 - If you press the shutter-release button with too much force, the camera may shake, causing images to be blurred. Press the button gently.



V During Recording

- While the indicator showing the number of exposures remaining is blinking, images are being
 recorded. Do not open the battery-chamber/memory card slot cover. Cutting the power or
 removing the memory card in these circumstances could result in loss of data or in damage to the
 camera or card.
- Depending on the settings or shooting conditions, the image recording time may take longer than usual (16).

Autofocus

Autofocus may not perform as expected in the following situations. In some rare cases, the subject may not be in focus despite the fact that the active focus area lights in green:

- · Subject is very dark
- Objects of sharply differing brightness are included in the scene (e.g. the sun behind the subject makes that subject appear very dark)
- No contrast between the subject and surroundings (e.g. a portrait subject, wearing a white shirt, is standing in front of a white wall)
- Several objects are at different distances from the camera (e.g., an animal inside a cage)
- Subjects that repeat the same pattern (e.g., as window blinds or buildings lined with windows of the same shape)
- · Subject is moving rapidly

In these situations, try pressing the shutter-release button halfway again to refocus, several times if necessary. If the subject is still not in focus, select auto mode and use focus lock (\(\subseteq\)67) to take the picture by first focusing on an object that is at the same distance from the camera as the desired subject.

AF-assist Illuminator and Flash

In dark places, the AF-assist illuminator (\$\sum_95\$) may light when the shutter-release button is pressed halfway, and the flash (\$\sum_54\$) may fire when the shutter-release button is pressed all the way.

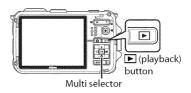
To Make Sure You Do Not Miss a Shot

If you are concerned that you might miss a shot, press the shutter-release button all the way without first pressing it halfway.

Step 5 Play Back Images

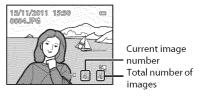
Press the ► (playback) button.

 When you switch from shooting mode to playback mode, the last image saved will be displayed in full-frame playback mode.



2 Use the multi selector to view the previous and next images.

- To view previous images: ▲ or ◀
- To view next images: ▼ or ▶
- The image can be also selected by using action control (\$\sum_{13}\$) and shaking the camera.
- To play back images that are saved in the internal memory, remove the memory card. \(\bigcirc\) is displayed around "current image number/ total number of images" on the playback screen.



Viewing Pictures

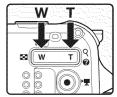
- Pictures taken using face detection (\$\sum_{\text{\tin}\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\tet
- When pictures taken with the continuous shooting feature are displayed, each series of images is treated as a group, and only the group's "key picture" is displayed (see "Playing Images Captured Using Continuous Shooting Mode (Sequence)" (☐72) for more information).
- Images may be displayed at low resolution immediately after switching to the previous or next image.

✓ More Information

- See "Features Available in Playback Mode (Playback Menu)" (\$\square\$71) for more information.
- See "Selecting Certain Types of Images for Playback" (QQ70) for more information.

Changing How Images Are Displayed

When using playback mode, you can change how images are displayed by pressing the zoom button **W** (**□□**)/**T** (**Q**).



Playback Zoom







Display position guide

Image is displayed in fullframe playback mode.

Image is zoomed in.

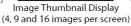
- To adjust the zoom ratio by pressing the zoom button W (₱)/T (९). Images can be zoomed up to 10x.
- To view a different area of the image, press the multi selector \triangle , ∇ , \triangleleft , or \triangleright .
- Pictures taken using face detection (2265) or pet detection (2246) are enlarged at the center of the face that was detected during shooting (except for pictures taken when **Continuous** in the shooting menu ([2]51) was set). If more than one face is detected when the image was captured, use \triangle , ∇ , \triangleleft , or \triangleright to display a different face. To zoom in on an area of the image where there are no faces, first change the zoom ratio, and then press \triangle , ∇ , \triangleleft , or \triangleright .
- You can crop the displayed area of the image and save it as a separate image by pressing the MENU button (\$\sime\$21).
- Press the button to return to full-frame playback mode.

Thumbnail Playback, Calendar Display



Mode







Т

(Q)

Calendar Display

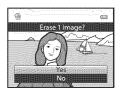
- You can view several images on one screen, making it easy to find the image you want.
- You can change the number of images displayed by pressing the zoom button **W** (■■)/**T** (Q).
- Press the multi selector ▲, ▼, ◄, or ▶ to select an image and then press the ® button to display that image in full-frame playback mode.
- When 16 images are displayed, press the zoom button **W** (■) to switch to calendar display.
- While using calendar display mode, press the multi selector ▲, ▼, ◄, or ▶ to select a date and then press the **®** button to display the first picture taken on that day.

Step 6 Delete Unwanted Images

Press the m button to delete the image currently displayed on the monitor.



- Press the multi selector ▲ or ▼ to select the desired deletion method and press the ® button.
 - Current image: Only the current image is deleted.
 - Erase selected images: Multiple images can be selected and deleted. See "Operating the Erase Selected Images Screen" (235) for more information.
 - All images: All images are deleted.
 - To exit without deleting, press the MENU button.
- 3 Press ▲ or ▼ to select Yes and press the ® button.
 - Deleted images cannot be recovered.
 - To cancel, press ▲ or ▼ to select No and press the ® button



Notes on Deletion

- Deleted images cannot be recovered. Transfer important images to a computer before deleting them.
- Protected images cannot be deleted (\$\overline{\pi}\$71).

Deleting Images in a Sequence

- When images are taken with continuous shooting, each series of images is treated as a group (pictures in a sequence) and only the group's "key picture" is displayed in the default setting (\$\display\$).
- When the mutation is pressed during displaying only the key picture, all images in the sequence, including the key picture, are deleted.
- To delete each picture in a sequence, before pressing the must button, press the button to display each image in the sequence individually.

Deleting the Last Image Captured While in Shooting Mode

When using shooting mode, press the 🗑 button to delete the last image that was saved.

Operating the Erase Selected Images Screen

- 1 Press the multi selector ◀ or ▶ to select an image to be deleted, and then press **\(\Lambda \)** to display 🤡.
 - To cancel the selection, press ▼ to remove ❤.
 - Press the zoom button (\square 29) **T** (\mathbb{Q}) to switch back to full-frame playback mode or **W** (to display thumbnails.



- **2** Add **⋘** to all images that you want to delete and then press the **™** button to apply the selection.
 - A confirmation dialog is displayed. Follow the instructions displayed on the monitor.



Selecting Certain Types of Images for Deletion

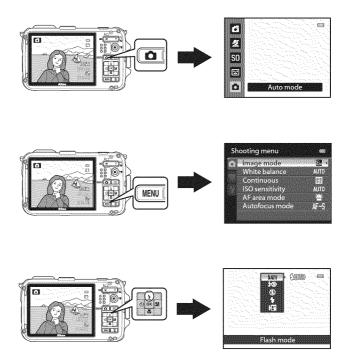




Shooting Features

This chapter describes each of the camera's shooting modes and the features that are available when using shooting mode.

By referring to this information, you will learn how to select different shooting modes and adjust settings according to the shooting conditions and the kind of images you want to capture.



🗗 (Easy Auto) Mode

When you frame a picture, the camera automatically selects the optimum scene for simple shooting.

0

When the camera is pointed at the subject, the camera automatically switches to the setting that is suited for the following shooting mode.

- Z: Portrait
- 🖭: Landscape
- PY: Night portrait
- 🖭: Night landscape
- W: Close-up
- Ess: Backlighting
- 🏋: Underwater*
- Other scenes
- * The camera is switched to underwater mode when it is lowered into water.
- The camera automatically selects the focus area for autofocus in accordance with the composition. The camera detects and focuses on faces (see "Using Face Detection" (△65) for more information).

Notes on Easy Auto Mode

- When the digital zoom is in effect, the shooting mode is set to
- The desired scene mode may not be selected in certain conditions. In this case, select another shooting mode.

Note after Taking the Camera out of the Water

After taking the camera out of water, sometimes it may not automatically switch to another scene from underwater mode.

Gently brush any water droplets with your hand from the camera or wipe it off with a soft and dry cloth. See "Cleaning after using the camera underwater" (\(\subseteq\)xiii) for more information on caring for the camera

Changing 🗗 (Easy Auto) Mode Settings

- See "Features That Can Be Set Using the Multi Selector" (☐53) for more information on flash mode (☐54), self-timer (☐56), and exposure compensation (☐58).
- Functions that can be set using the **MENU** button: The combination of image size and image quality (image mode) can be set using the **MENU** button (\(\sigma 61\)).
- Features That Cannot Be Used Simultaneously

These features may not be used in combination with certain features (\square 63).

Scene Mode (Shooting Suited to Scenes)

When one of the following scenes is selected, pictures are captured using settings that are optimized for the selected scene.

Display the shooting screen \rightarrow \bigcirc (shooting mode) button \rightarrow \bigcirc (the second icon from the top*) \rightarrow \triangleright \rightarrow select a scene (\square 26, 27)

* The icon for the last scene mode selected is displayed. The default setting is **2** (portrait).

Ź Portrait (□□40)	邶 Close-up (□142)
■ Landscape (□□40)	11 Food (QQ43)
❖ Sports (◯◯40)	<u>m</u> Museum (□143)
₩ Night portrait (Щ41)	⊕ Fireworks show (□□43)
💥 Party/indoor (🕮 41)	☐ Black and white copy (◯◯ 43)
♀ Beach (◯◯41)	■ Backlighting (□□44)
	Ħ Panorama (□145)
≝ Sunset (□141)	₩ Pet portrait (□146)
≟ Dusk/dawn (◯◯ 42)	₩ Underwater (□□46)
™ Night landscape (ДД42)	

View a Description of Each Scene (Help Information)

Select the desired scene from the scene selection screen and press the zoom button (\square 29) T (\bigcirc) to view a description of that scene (help). To return to the original screen, press the zoom button T (\bigcirc) again.



Changing Scene Mode Settings

- See "Features That Can Be Set Using the Multi Selector" (\$\sum_{53}\$) for more
 information. The setting varies with scene mode. See "Default Settings" (\$\sum_{59}\$)
 for more information.
- Functions that can be set using the MENU button:
 The combination of image size and image quality (image mode) can be set by pressing the MENU button in shooting mode (\$\sum_{61}\$, except Easy panorama).

Features That Cannot Be Used Simultaneously

Scene Mode (Shooting Suited to Scenes)

Characteristics of Each Scene

Use of a tripod is recommended in scenes with which 🛣 is indicated. Set **Vibration reduction** in the setup menu (294) to **Off** when using a tripod to stabilize the camera

2 Portrait

Use this mode for portraits.

- The camera detects and focuses on a face (see "Using Face Detection" (2265) for more information).
- After the skin softening feature makes the subject's skin appear smoother, the camera records the image (266).
- If no faces are detected, the camera focuses on the subject at the center of the frame.
- The digital zoom is not available.



Landscape

Use this mode for vivid landscapes and cityscapes.

 When the shutter-release button is pressed halfway, the focus area or focus indicator (□6) always lights in green.



Sports

Use this mode when shooting sporting events. The camera captures a series of still pictures that allow you to clearly see detailed movements in a moving subject.

- The camera focuses on the subject at the center area of the frame.
- To capture a series of images, hold down the shutterrelease button all the way. Up to 12 pictures are shot at a rate of about 1.4 frames per second (fps) (when image mode is set to 408×3456).
- The camera focuses on the subject even when the shutter-release button is not pressed halfway. You may hear the sound of the camera focusing.
- Focus, exposure, and hue are fixed at the values determined with the first shot in each series.
- The frame rate with continuous shooting may decrease depending upon the current image mode setting, the memory card used, or shooting condition.



Night portrait



Use this mode for portraits taken at sunset or at night.

- The camera detects and focuses on a face (see "Using Face Detection" (□65) for more information).
- After the skin softening feature makes facial skin tones softer, the camera records the image (66).
- If no faces are detected, the camera focuses on the subject at the center of the frame.
- The digital zoom is not available.



XX Party/indoor

Suitable for taking pictures in parties. Captures the effects of candlelight and other indoor background lighting.

- The camera focuses on the subject at the center area of the frame.
- When shooting in dark surroundings, hold the camera steadily to avoid the effects of camera shake. To take a picture with the camera attached to a tripod, set
 Vibration reduction in the setup menu (294) to Off.



Reach

Capture the brightness of such subjects as beaches or sunlit expanses of water.

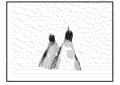
 The camera focuses on the subject at the center area of the frame



8 Snow

Capture the brightness of sunlit snow.

 The camera focuses on the subject at the center area of the frame.



Sunset



Preserve the deep hues seen in sunsets and sunrises.

 The camera focuses on the subject at the center area of the frame.



Scene Mode (Shooting Suited to Scenes)

i Dusk/dawn

【】

Preserve the colors seen in the weak natural light before sunrise or after sunset.

• When the shutter-release button is pressed halfway, the focus area or focus indicator (\$\subseteq\$6 always lights in green.



Might landscape



Slow shutter speeds are used to capture the atmosphere of a night landscape.

 When the shutter-release button is pressed halfway, the focus area or focus indicator (\(\subseteq 6\)) always lights in green.



🌃 Close-up

Use this mode to photograph flowers, insects, and other small objects at close range.

- Macro mode (\$\sum_57\$) is enabled and the camera automatically zooms to the closest position to the subject where the camera can shoot.

To adjust the following settings, press the \bigcirc button to temporarily cancel focus area selection, and then adjust each setting.

- Flash mode, self-timer or exposure compensation
- The camera focuses on the subject even when the shutter-release button is not pressed halfway. You may hear the sound of the camera focusing.



TI Food

Use this mode when taking pictures of food.

- You can adjust the hue by pressing the multi selector ▲ or
 ▼. The hue adjustment setting is saved in the camera's memory even after the camera is turned off.

To adjust the following settings, press the

button to temporarily cancel focus area selection, and then adjust each setting.

- Hue, self-timer or exposure compensation
- The camera focuses on the subject even when the shutterrelease button is not pressed halfway. You may hear the sound of the camera focusing.





Ⅲ Museum

Use indoors where flash photography is prohibited (for example, in museums and art galleries) or in other settings in which you do not want to use the flash.

- The camera focuses on the subject at the center area of the frame.
- The camera captures up to ten images while the shutterrelease button is pressed all the way, and the sharpest image in the series is automatically selected and saved (BSS (Best Shot Selector) (□52)).



Fireworks show

Slow shutter speeds are used to capture the expanding burst of light from fireworks.

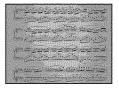
- The camera focuses at infinity.
- When the shutter-release button is pressed halfway, the focus area or focus indicator (\$\sum_0\$) always lights in green.



■ Black and white copy

Provide clear images of text or drawings on a white board or in print.

- The camera focuses on the subject at the center area of the frame.
- When shooting nearby object, shoot with macro mode (□ 57).



Backlighting

Use when light is coming from behind the subject, throwing features or details into shadow.

In the screen that is displayed when **A Backlighting** scene mode is selected, **On** or **Off** can be selected in HDR (high dynamic range) composition.

- Off (default setting): The flash fires to prevent the backlit subject from being hidden in shadow.
 - The camera focuses on the subject at the center area of the frame.
 - Press the shutter-release button all the way to shoot a single picture.



- On: Use when shooting scenes with high contrast.
 - The HDR icon is displayed on the shooting screen. If there are very bright areas and very dark areas in the frame, the HDR icon lights in green.
 - The camera focuses on the subject at the center area of the frame.
 - When the shutter-release button is pressed all the way, the camera shoots pictures continuously, and saves the following two images.
 - An image processed by D-Lighting (\$\sum 71\$) at the time of shooting
 - HDR composite image (loss of detail is reduced in highlights and shadows)
 - The second image saved is an HDR composite image. If only one image can be saved, an image processed by D-Lighting is the only image saved.
 - Once the shutter-release button is pressed all the way, hold the camera steady without moving it until a still picture is displayed. After taking a picture, do not turn the camera off before the monitor switches to the shooting screen.
 - Use of a tripod is recommended. Set **Vibration reduction** in the setup menu (194) to **Off** when using a tripod to stabilize the camera.
 - The digital zoom is not available.



☐ Panorama



Use this mode for shooting panorama pictures. In the screen that is displayed when \bowtie **Panorama** scene mode is selected, Select **Easy panorama** or **Panorama assist**.

- Easy panorama (default setting): Shoots panorama pictures that can be played back on the camera by moving the camera in the direction you want to create a panorama picture.
 - Shooting range can be selected from **Normal (180°)** (default setting) or **Wide (360°)**.
 - Press the shutter-release button all the way and release it, then move the camera slowly in the horizontal or vertical direction.
 - When shooting starts, the camera focuses on the subject at the center area of the frame
 - The zoom is fixed at the wide-angle position.
 - Display the picture recorded with easy panorama in full-frame playback mode and
 press the ® button. The camera displays the short side of the picture filling the entire
 screen and scrolls the picture automatically.
 - See "Using Easy Panorama (Shooting and Playing back)" (��2).
- Panorama assist: Use this mode when shooting a series of pictures that can later be
 joined on a computer to form a single panorama.
 - Press the multi selector ▲, ▼, ◄ or ▶ to select the direction in which pictures are to be joined and press the ® button.
 - After shooting the first picture, shoot the necessary number of pictures while confirming the seams. To finish shooting, press the 🔞 button.
 - Transfer taken pictures to a computer and use the included **Panorama Maker 5** software (□176, ◆6) to join them in a single panorama. See "Panorama Assist" (◆5) for more information.

Note on Printing Panorama Pictures

When printing panorama pictures, a full view may not be printed depending on the printer settings. Additionally, printing may not be available depending on the printer.

🎀 Pet portrait

Use this mode for shooting pictures of dogs or cats.

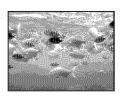
- Select Single or Continuous (three pictures are shot continuously).
 - Single: One picture is captured at a time.
 - Continuous (default setting): When the camera focuses on the detected face in **Pet portrait auto release** (default setting) mode, three pictures are shot continuously (frame rate with continuous shooting: approximately 1.4 frames per second when image mode is set to 4608×3456). If pet portrait auto release is not used, up to 12 pictures are shot at a rate of about 1.4 frames per second while the shutter-release button is fully held down (when image mode is set to 44608×3456).
- The camera detects and focuses on the face of a dog or cat. In the default setting, when
 the subject is in focus, the shutter is released automatically (Pet portrait auto release).
- · Up to five pet faces are detected simultaneously.
- If a pet's face is not detected, press the shutter-release button halfway to focus on the subject at the center of the frame.
- Press the multi selector

 (☼) to change the pet portrait auto release settings.
 - Pet portrait auto release (default setting): When the camera focuses on the detected face, the shutter is released automatically. When Pet portrait auto release is selected, ☑ is displayed on the shooting screen.
 - **OFF**: Press the shutter-release button to release the shutter.
- In the following situations, **Pet portrait auto release** is automatically switched to **OFF**.
 - When pet portrait auto release is repeated five times
 - When remaining capacity of the internal memory or memory card is low To continue shooting with pet portrait auto release, press the multi selector ◀ (ఄ) to set again.
- · The digital zoom is not available.
- Under some shooting conditions such as pet-to-camera distance, speed of moving pets, direction in which the pets are facing, and brightness of the faces, the camera may be unable to detect a dog or cat, or a border is displayed around something other than a dog or cat.

Underwater

Use this mode for underwater shooting.

- The camera focuses on the subject at the center area of the frame.
- The digital zoom is not available.
- See "<Important> Shockproof, waterproof, dustproof, condensation, GPS/digital compass" (\(\sum_{x}\)i) for more information on shooting underwater.

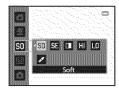


Special Effects Mode (Applying Effects When Shooting)

Select one of the six special effects for shooting. The effect is applied to pictures during shooting.

Display the shooting screen $\rightarrow \square$ (shooting mode) button \rightarrow \$0 (the third icon from the top*) $\rightarrow \square$ \$\infty\$ Select the effect (\(\infty\)26, 27)

- * The last icon you selected is displayed. The default setting is **SO** (Soft).
- The camera focuses on the subject at the center area of the frame.



Characteristics of Each Special Effect

Option	Description
SO Soft	Soften the image by adding a slight blur to the overall image.
SE Nostalgic sepia	Add a sepia tone and reduce the contrast to simulate the qualities of an old photograph.
High-contrast monochrome	Change the image to black and white and gives it sharp contrast.
HI High key	Give the overall image a bright tone.
LO Low key	Give the overall image a dark tone.
Selective color	Create a black and white image in which only the specified color remains.

- When Selective color is set, select a color that you want to retain using the multi selector ▲ or ▼.
 To adjust the following settings, press the ® button to temporarily cancel color selection, and then adjust each setting.
 - Flash mode (QQ 54)
 - Macro mode (🕮57)

To return to the color selection screen, press the 🔞 button again.



Changing Special Effects Mode Settings

- See "Features That Can Be Set Using the Multi Selector" (\$\sumsystem\$53) for more information on flash mode (\$\sum_54\$), self-timer (\$\sum_56\$), macro mode (\$\sum_57\$), and exposure compensation (\$\square\$58).
- Functions that can be set using the MENU button: The combination of image size and image quality (image mode) can be set using the **MENU** button (\square 61).

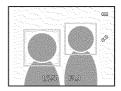
Smart Portrait Mode (Shooting Smiling Faces)

If the camera detects smiling faces, the shutter is automatically released without pressing the shutter-release button (Smile timer). The skin softening function makes facial skin tones softer.

Display the shooting screen → ♠ (shooting mode) button → ☑ Smart portrait mode (☐ 26, 27)

1 Frame the picture and wait for the subject to smile.

 When the camera detects a human face, a yellow double border (focus area) is displayed around that face. When the camera has focused on that face, the double border will light in green for a moment and focus is locked.



- Up to three faces can be detected. When more than one face is detected, the face closest to the center of the frame is framed by a double border and the others by single borders.
- If the camera detects that the face framed by the double border is smiling, the Smile timer (250) feature is activated and the shutter is automatically released.
- Each time the shutter is released, automatic shooting using face detection and smile detection is repeated.

2 Shooting ends.

 To finish automatic shooting of smile detection, press the button to switch to another shooting mode.

Notes on Smart Portrait Mode

- The digital zoom is not available.
- Under some shooting conditions, faces and smiling faces may not be detected properly.
- See "Notes on Face Detection" (2465) for more information.

Auto Power Off in Smile Timer Mode

When **Smile timer** is set to **On**, the auto off function (\square 95) is activated and the camera turns off when any one of the situations indicated below persists and no other operations are performed.

- · The camera does not detect any faces.
- The camera detected a face, but cannot detect a smile.

When the Self-timer Lamp Blinks

When using smile timer, the self-timer lamp blinks when the camera detects a face and flickers immediately after the shutter is released.

Releasing the Shutter Manually

The shutter can also be released by pressing the shutter-release button. If no faces are detected, the camera focuses on the subject at the center of the frame.

Changing Smart Portrait Mode Settings

- See "Features That Can Be Set Using the Multi Selector" (☐53) for more information on flash mode (☐54), self-timer (☐56), and exposure compensation (☐58).
- See "Options Available in the Smart Portrait Menu" (below) for more information on functions that can be set using the **MENU** button.

Options Available in the Smart Portrait Menu

In smart portrait mode, the following option settings can be changed.



Option	Description	
lmage mode	Allow you to select the combination of image size and image quality used when saving images (ДД61). The default setting is Д4608×3456 . This setting is also applied to other shooting modes.	61
Skin softening	Enable skin softening. The camera makes facial skin tones softer before saving images. The extent of effect applied can be selected. The default setting is Normal .	∂−6 32
Smile timer	When set to On (default setting), the camera detects human faces and then automatically releases the shutter whenever a smile is detected. Self-timer cannot be used with this feature.	∂−6 32
Blink proof	When On is selected, the camera automatically releases the shutter twice each time a picture is taken. Of the two shots, one in which the subject's eyes are open is saved. The flash cannot be used when On is selected. The default setting is Off .	∂= 033



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